



Diagram illustrating the air conditioning system for the MECH EQUIPMENT ROOM, showing the layout of the room and the associated equipment.

**Room Layout:**

- MECH EQUIPMENT ROOM (Main Room)
- RADIO EQUIPMENT ROOM
- BATTERY ROOM
- ROOF

**Key Equipment and Components:**

- CONDENSING UNIT:** Located on the ROOF, connected to the MECH EQUIPMENT ROOM.
- AIR HANDLING UNIT A/C-1:** Located in the MECH EQUIPMENT ROOM, connected to the CONDENSING UNIT and the RADIO EQUIPMENT ROOM.
- MOTOR OPERATED DAMPER FSD-1:** Located in the PLENUM, connected to the AIR HANDLING UNIT.
- MOTOR OPERATED DAMPER FSD-2:** Located in the BATTERY ROOM, connected to the AIR HANDLING UNIT.
- Electrical Controls:** Various switches, relays, and wiring are shown, including a MOTOR STARTER and a MOTOR OPERATED DAMPER FSD-3.

**Wiring and Connections:**

- 208VAC, 3ø (Three-phase power)
- 120VAC (Single-phase power)
- CONTROL WIRING
- PLENUM
- SUPPLY AIR DUCT
- RETURN AIR DUCT
- MECH EQUIPMENT ROOM
- RADIO EQUIPMENT ROOM
- BATTERY ROOM

**Notes:**

- SEE SHEET E-811.
- AIR FLOW SW. (M.O.) (TYP.)
- EF-1, EF-2 (Electrical components)
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- EF-1, EF-2 (Electrical components)

EXISTING #6AWG LAP  
FEEDING 50 AMP  
MCB IN PANEL

NYLON TY-RAP

250MM<sup>2</sup> COPPER PIPE  
TO 9TH FLOOR

BURNDY #8VARGAS OR EQUAL  
1-HOLE, 1-CRIMP, TIN-PLATED  
ALUMINUM COMPRESSION LUG,  
DUAL-RATED AL/CU

3/8" S STAINLESS STEEL NUT,  
BURNDY #38HSSN OR EQUAL  
AND SPIE LOCKWASHER

BURNDY #38TSSSD OR EO.  
OVER FLATWASHER, BURNDY  
#38SWSS OR EQUAL

3/8" X 1 1/4" STAINLESS STEEL BOLT  
BURNDY #38X125 HSSB  
OR EQUAL

BURNDY #8VARGAS OR EQUAL  
2-HOLE, 2-CRIMP, TIN-PLATED  
ALUMINUM COMPRESSION LUG,  
DUAL-RATED AL/CU

ALUMINUM PSE

(A1)	4-1/2 250MM x 1-1/2 #20 IN 3'C
(A2)	4-1/2 #1/0 & 1-1/2 #80 IN 3'C
(A3)	4-1/2 #1/0 & 1-1/2 #80 IN 2'C
(A4)	3-1/2 #3, 1-1/2 #1/0 & 1-1/2 #80 IN 2'C
(A5)	3-1/2 #4, 1-1/2 #10, & 1-1/2 #36 IN 1-1/2'C
(A6)	3-1/2 #4, 1-1/2 #10, & 1-1/2 #80 IN 1-1/2'C
(A7)	3-1/2 #4, 1-1/2 #10, & 1-1/2 #80 IN 1-1/2'C
(A8)	4-1/2 #2 & 1-1/2 #80 IN 1-1/2'C
(A9)	3-1/2 #5 & 1-1/2 #100 IN 1-1/4'C
(A10)	3-1/2 #5 & 1-1/2 #100 IN 1-1/4'C
(A11)	3-1/2 #3, 1-1/2 #2/0M, & 1-1/2 #80 IN 2'C
(A12)	1-1/2 #1/0 IN 3/4'C EXTERNALLY WELDED TO BUILDING STRUCTURAL COLUMN E-14/21.
(A13)	1-1/2 #20 IN 3/4'C EXTERNALLY WELDED TO BUILDING STRUCTURAL COLUMN E-14/21.
(A14)	2-1/2 #1/0 & 1-1/2 #1/0 IN 2-1/2'C
(A15)	2-1/2 #12 & 1-1/2 #120 IN 3/4'C
(A16)	2-1/2 #12 & 1-1/2 #120 IN 3/4'C
(A17)	3-1/2 #12 & 1-1/2 #120 IN 3/4'C
(A18)	3-1/2 #12 & 1-1/2 #120 IN 3/4'C
(A19)	2-1/2 #6 & 1-1/2 #100 IN 1-1/2'C
(A20)	2-1/2 #6 & 1-1/2 #100 IN 1 1/2" C. SEE DWG. E-807
(A21)	2-1/2 #6 & 1-1/2 #100 IN 1 1/2" C. SEE DWG. E-807
(A22)	2-1/2 #6 & 1-1/2 #100 IN 1 1/2" C. SEE DWG. E-807
(A23)	2-1/2 #6 & 1-1/2 #100 IN 1 1/2" C. SEE DWG. E-807
(A24)	2-1/2 #6 & 1-1/2 #100 IN 1 1/2" C. SEE DWG. E-807
(A25)	2-1/2 #6 & 1-1/2 #100 IN 1 1/2" C. SEE DWG. E-807
(A26)	2-1/2 #6 & 1-1/2 #100 IN 1 1/2" C. SEE DWG. E-807
(A27)	2-1/2 #6 & 1-1/2 #100 IN 1 1/2" C. SEE DWG. E-807
(A28)	2-1/2 #6 & 1-1/2 #100 IN 1 1/2" C. SEE DWG. E-807
(A29)	2-1/2 #6 & 1-1/2 #100 IN 1 1/2" C. SEE DWG. E-807
(A30)	2-1/2 #6 & 1-1/2 #100 IN 1 1/2" C. SEE DWG. E-807

D.S.	D.S.	D.S.
Designed by	Drawn by	Checked by
Date	Scale NONE	
Contract Number	Drawing Number	
WTC-945071	E-806	